

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/21834

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A01N 43/58, 43/50; A61K 31/495, 31/50; C07D 257/08, 257/12, 471/00, 487/00, 491/00, 495/00, 497/00,
US CL : 514/249; 544/279, 350, 353, 354

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 514/249; 544/279, 350, 353, 354

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
EAST: USPAT, USPG-PUB, EPO, JPO, DERWENT

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
STN: Structure searched in REGISTRY file, answer set crossed in CAPLUS file.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	WO 99/42463 A1 (CARSON et al.) 26 August 1999 (26.08.1999), pages 43 and 44, pages 75-77.	1, 2, 4 ----- 17, 18, 20, 22-25
X	STEVENS et al. Substituted Sulfaquinoxalines. I. The Isolation and Synthesis of 3-Hydroxy-2-sulfanilamidoquinoxalines and of Related Quinoxalines. Journal of the American Chemical Society. 1946, Vol. 68, pages 1035-1039, especially page 1037.	1, 2, 4, 12, 13, 15
X	BERGSTROM et al. Cyclic Ammono Ketones and Acid Chlorides of the Quinoxaline Series. Journal of the American Chemical Society. 1931, Vol. 53, pages 1846-1853, especially page 1850,	1, 2, 4, 12, 13, 15
X	FUSON et al. Acyloins from t-Butylglyoxal. Journal of the American Chemical Society. 1939, Vol. 61, pages 1937-1940, especially page 1939.	1, 2, 4, 12, 13, 15
X	BENNETT et al. Steric Hindrance in Reactions of Substituted Quinoxalines. Journal of the Chemical Society. 1928, part 2, pages 1960-1975, especially page 1966.	1, 2, 4, 12, 13, 15
X	MALKIN et al. Phenyl Benzyl Diketone and some Derivatives. Journal of the Chemical Society. 1925, Vol. 127, pages 369-377, especially page 373.	1, 2, 4, 12, 13, 15

☒ Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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document member of the same patent family

Date of the actual completion of the international search

29 December 2004 (29.12.2004)

Date of mailing of the international search report

02 FEB 2005

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Zachary C. Tucker

Telephone No. 571-272-1600

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BLACHE et al Heterocyclizations in the Pyrido[2,3-b]pyrazine Series. Journal of Heterocyclic Chemistry. 1994, Vol. 31, No. 1 , pages 161-166, especially page 163.	1, 2, 4, 6-9, 11